NEW TUBE 'STEPS UP' POWER OF 1,000 KW.

Lightweight Magnetron Is Described by General Electric Scientists.

USED IN RADIO TESTS

Perfected in Researches for Apparatus to Simplify Transmission Lines.

MAY BE REVOLUTIONARY

Would Make Possible Sending of Energy Longer Distances Than at Present.

cial Disputch to THE NEW YORK HREALD. SCHENECTADY, Oct. 21.—A 1,000 kilowatt vacuum tube, fifty times more powerful than any now in been developed in the research labo-

It is called the magnetron, and, although still experimental, represents an important step in the effort to produce tubes not only for radio, but also for the long distance transmission of tremendous electric power by means of the direct current. Its creation grew out of a desire to fashion tubes for general power purposes-a new

tube has been kept secret heretofore, but is reported by Dr. Irving Langmuir of the research laboratory in an article published to-day in the Electric but is reported by to-morrow night; moderate south and southwest winds.

by J. H. Payne, Jr., of the laboratory staff, and involves a principle of mag netic control proposed by Dr. A. W. Bull. It would light 40,000 twenty-five incandescent lamps or supply

watt incandescent lamps or supply energy to almost 1,500 average homes, but it weighs only sixty pounds.

For Power Transmission.

"Engineers had fourd," the company says, "that the major problem of tube development for wireless had been solved in so far as the larger sizes of tobes were concerned. They had demorstrated that almost any size tube could be made for radio work and operated successfully. But there was a wenderful field for tubes in general engineering, especially where very bigh frequency generators or high voltage rectifiers might be required.

"Thus attention was directed to the development of super-power tubes for use in the generation and transmission.

The Kash Superior Southes, with centers to find Raile Rio Roi Grande Valley, with centers to find minimum pressure over Minnesota and Kansas. Pressure remained high to were the Eastern States and the north Pacific States, and high and rising over the northern Rocky Mountain region. The weather has remained high to were the Eastern States and high and rising over the northern Rocky Mountain region and Colorado and along the southeast Florida coast.

The temperature was higher to-day in the lake region, the Ohio and upper Mississippi valleys and the west Gulf States, and in the Atlantic States, and in the Atlantic States, and in the Canadian Northwest the Dakotas and the Central and content of super-power tubes for use from the Rocky Mountain region and Colorado and along the southeast Florida coast.

The temperature was higher to-day in the lake region, the Ohio and upper Mississippi valleys and the west Gulf States, and in the Atlantic States, and in the Atlantic States, and in the Atlantic States and the Central and content of the country of the protection of the protection of the Rocky Mountain region of the pacific States, and high and rising over the Eastern States and the northern Rocky Mountain region of the pacific States, and in the Atlantic States, and in the Atlantic States, and in the Atlantic States and the Central and content of the

se in the generation and transmission of high voltage direct current and for other engineering work.

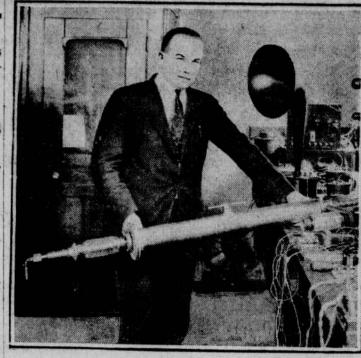
The maximum to which electricity a economically b transmitted is several times greater with direct t.cn with alternating current. The difficulty has been in the generation and distribution of very high voltage direct current. It is such difficulties that may be solved by vacuum tubes, of which this one is

output of this tube is approxiristely 40 amperes at 25,000 volts; l. e., about 1,000 silowats. The tube serves as a rectifier to change alternating to direct current, and is also adapted as at, inverte, to change direct to alterhating current of any frequency or to convert low frequency alternating current to high frequency.

1,800 Ampere Current Needed. Dr. Langmuir is the Electrical World

"This tube consists essentially of a water cooled cylindrical anode 30 inches long and 1% inches diameter. In the sxis of the anode is a tungsten fila-

Magnifies Electrical Energy



The magnetron tube, designed to help send electrical power many times greater distances than are now possible

ratory of the General Electric Com- Daily Calendar FINDS ARISTOCRACY OF BRAINS IS MYTH THE WEATHER.

Circle Recruits Ranks

of Colleges.

Special Dispatch to THE NEW YORK HERALD. HARTFORD, Conn., Oct. 21.—No danger of an "aristocracy of brains" in this

attendance at Trinity College, President

amount of the apprehension aroused by use of the phrase 'aristocracy of brains' is removed if we realize that this aris-tocracy does not mean the domination of a single class," Dr. Ogilby said. Aris-tocracy simply, means the vale of the

(Tune to 360 Meters)

WJZ NEWARK.

For Eastern New York—Fair to-day moder and to-morrow; warmer to-day; moderate south and southwest winds.

For New Jersey—Fair to-day and to-

norrow; warmer to-morrow; moderate outh and southwest winds. For Northern New England—Fair and warmer to-day and to-morrow; moder-ate south and southwest winds. For Southern New England—Fair and

warmer to-day and to-morrow; moder

Washington, Oct. 21.—Incomplete reports from Mexico indicate that the tropical storm has reached the Mexican coast in the vicinity of Frontera. The of college men may be so called, is begales in the bay of Campeche have

gales in the bay of Campeche have subsided.

Pressure was low and falling to-night from Lake Superior southwestward to the Rio Grande Valley, with centers of minimum pressure over Minnesota

of. Certain pressure is always brought to bear upon a college to continue along the lines which are dear to loyal To-day's Radio Program

HARDING HALTS THE PORK BARREL BILL

Public Building Outlay Is Stopped After Conference With Lord.

ITS BACKERS STUNNED

Republican Leaders Approve President's New Move for Economy.

VETO ALSO THREATENED

Trinity Head Says No Charmed Treasury condition is improved.

who had expected a great haw in the proposed measure. Many of the members already have promised public buildings to their home communities. Their appetites for public buildings have been whetted by the fact that there has been no such bill for almost ten years. Postmaster-General Work says many new post office buildings are needed, as well as additions to existing structures, thus giving his moral if not active support to the pork bill. But Administration leaders say such a measure at the coming session would be ill advised, if not suicidal, for the Republican party, port to the pork bill. But Administra-tion leaders say such a measure at the coming session would be ill advised, if not suicidal, for the Republican party, which is committed to an economic pro-gram.

best and we all of us want those who are dealing with our desinies to be the men best fitted for their task. The important principle to establish is that an arstocracy of brains must not be a closed corporation. Aristocracy has no terrors if it is constantly recruited from outside. "In that connection an analysis of the students at Trinity College this year is most interesting. Of our present undergraduate body just over 29 per cent. In esons of college men. 7 per cent. of them being sons of Trinity men. This means that the group of young Americans who are aspiring to higher education in this community is not a definite stratum of society. It

There is a growing belief at the Capitol that President Harding will veto the pork barrel bill if it is forced through Congress by one of the many log rolling plans now in the making. Because of the heavy drains on the Treasury for necessary expenses of the Government one of the leading Senators pointed out that it will be absolutely necessary for the second of the congress to kill all now harrel presidents. not a definite stratum of society. It is a group four-fifths of whom come from families where college education is not a tradition.

"This is something which an educa-tional institution does well to be proud. of Certain pressure is always brough

along the lines which are dear to loyal alumni who would like nothing better than to see their boys thrown in with a group made up catirely of the sons of their former class mates. This would spell disaster to a college and would prevent the institution from of their former classmates, This community.

The essential items of the 1923 estimates for appropriations now being compiled by the Budget Bureau have the approval of President Harding. The estimates will be completed next week for the final approval and then will be sent to the printer. This will insure Congress getting a flying start with the expressivation bills and indicates strong-

My Langmur is the preservoir flower of the consiste sessibility of a Theorem of the consiste sessibility of a Theorem of the preservoir flower of the service of the anode is a tungsten fill-service of the a

cont, are eminently satisfactory, but for other entirecting purpose they are other entirecting purposes they are of the emineral particles. The production of the first purpose of the emineral particles are of the production of the first purpose of the emineral particles. The emineral particles are of the production of the first purpose of the emineral particles. The emineral particles are not producted the first purpose of the emineral particles. The emineral particles are not producted the first purpose of the emineral particles. The emineral particles are not producted to the production of the first purpose of the emineral particles. The emineral particles are not producted the finite particles are not producted the finite particles. The emineral particles are not producted the finite particles are not producted the particles. The emineral particles are not producted the finite particles are not producted the finite particles are not producted the finite particles are not producted to product the particles. The production of powerful tubes of production of powerful tubes of

Say Women Will Neglect Homes to Help Smith Win

RS. VANDERBILT WEBE Mrs. Charles Dana Gibson Mrs. John W. Davis, Mrs Bainbridge Colby, Mrs. Daniel O'Day and many other women of equal prominence are going to neglect their fall pickling and pre-serving to help elect "Al" Smith

Governor.

Mr. Webb, Mr. Gibson and the husbands of the other well known women named may have to eat bread and milk for supper on the kitchen table because their wives will be out campaigning and will be too busy to prepare the evening

That is according to an announcement yesterday by the women's division of the State Democratic Committee.

additional cost of the commission will be more than offset, however, by the increased revenues derived from the Fordney-McCumber bill. It is figured that the gain in customs receipts under this measure will amount to \$50,000,000

This Will Come if Congress

Manages to Jam the Measure Will amount to \$50,000,000 a year.

Senator Curtis (Kan.), Republican whip, issued a campaign statement today saying the Administration has done and is doing everything possible to reduce expenditures.

When the extra session was called May 1919," he said, "the new Republican Congress was asked to pass on the big supply bills which had failed of passage before March 4, 1919. The amount recommended by the previous Congress was \$3,567,875,974. The amount appropriated was \$3,567,875,974. The amount appropriated was \$4,528,283,432 a reduction of \$839,622,541 made by a Republican Congress.

down on the Congressional proposal for a \$100,000,000 "pork barrel" bill to provide publice buildings in remote sections. He believes the Government cannot afford to embark on such an unprofitable enterprise at this time and is confident the cities and towns which would like to have ornate Federal buildings can wait until the Treasury condition is improved.

Mr. Harding's attitude on the "pork barrel" proposal became known to-day when he gave tentative appropriations now being worked out by Gon. Lord. Director of the Budget. The estimates, which limit the expenses of running the Government to the amount of the income, contain no mention of a "pork barrel" bill.

The decision will be a blow to Repressentative Langley (Ky.), chairman of the House Committee on Public Buildings and Grounds, and many of his colleagues, who had expected a great haul in the proposed measure. Many of the members already have promised public buildings to their home communities. Their appetites for public buildings have been no such bill for almost ten years.

Reaction is Unfavorable.

Some of the republican leaders are criticizing Representative Langley for sponsoring the bill at this time. They say it is causing unfavorable reaction throughout the country.

There is a growing belief at the Capitel that President Harding will veto the Congress by

BUYS GERMAN SUIT BUT LACKS TROUSERS

Plight of Czech Returning From Cheap Purchase.

BERLIN. Oct. 7 .- Smuggling on the

there. Aside from the large smuggling the customs officers might confiscate it projects enterprising Czechs have been In panic he retired to the washroom and stuffs and even haircuts, which can be them out of the window. Then he YORK had for a fraction of the cost in their opened the bundle containing his purown country.

Recently a young Czech crossed into include the trousers in the package,

Stern Brothers

West 42nd Street

(Between 5th and 6th Avenues)

West 43rd Street

Our First Complete Showing of the Newest Models for FALL and WINTER 1922-23, in

Men's and Young Men's Imported Overcoats



Tailored and finished with a precision characteristic of London's most expert men designers and needleworkers.

Developed in those fine, British, warmth - without - weight woolens, so carefully selected especially for the exacting American gentleman.

ULSTERS BOX COATS GREAT COATS MOTOR COATS

A collection worthy of your inspection at

and \$65



ranberries

From Nature's Own Laboratory!

A cunning theft from the soil - a whiff of the sea - a tinge of frost - and you have the most healthful - most zestful of fruits - Cranberries!

Cranberries are also the most economical of fruits-they cost the least - are easiest to prepare - quickest to cook - and there is no waste!

Try these recipes:

Cranberry Jelly

Cook until soft the desired quantity of cranberries with 11/2 pints of water for each two quarts of berries. Strain the juice through a jelly bag

Measure the juice and heat it to the boiling point. Add one cup of sugar for every two cups of juice; stir until the sugar is dissolved; boil briskly for five minutes; skim, and pour into glass tumblers, porcelain or crockery molds.

Cranberry Sauce

One quart cranberries, two cups boiling water, 11/2 to 2 cups sugar. Boil sugar and water together for five minutes; skim; add the cranberries and boil without stirring (five minutes is usually sufficient) until all the skins are broken. Remove from the fire when the popping stops.

Strained Cranberry Sauce

If a strained sauce is preferred, cook the cranberries and water; then press through the strainer, keeping back the skins; add the sugar and finish the cooking as suggested.

Cook cranberries in porcelain-lined, enameled, or aluminum vessels - never in tin.

To be sure of a selection of the choicest varieties—ask for Eatmor Cranberries.

(The red and blue trade-mark label is on all barrels and boxes.)